GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:2705
ANSWERED ON:01.12.2016
Contamination of Ground Water
Chaudhury Shri Jitendra;Singh Shri Sushil Kumar;Venkatesh Babu Shri T.G.

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) whether the Government is aware that ground water in the country including Delhi and Bihar is getting day by day highly contaminated with both bio and chemical pollutants like Fluoride, Nitrate, Arsenic, Lead, Cadmium, Chromium as well as other metals, if so, the details and the present status thereof, State-wise;
(b) the details of steps taken along with the ongoing schemes/projects to tackle the situation and improve/recharge ground water level including the quantum of funds allocated/released/spent for the purpose during the current plan period, State/ year-wise;
(c) whether the Government has issued any advisories to the States against large scale extraction and depletion of ground water, if so, the details thereof; and
(d) whether the Government proposes to depute doctors and scientists to check depletion as well as contamination of ground water in the country including Aurangabad district of Bihar, if so, the details thereof?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

(DR. SANJEEV KUMAR BALYAN)

(a) Ground water quality data generated by Central Ground Water Board (CGWB) during various scientific studies and ground water quality monitoring indicates that ground water in isolated pockets in parts of various States including Delhi and Bihar is contaminated with Fluoride, Nitrate, Arsenic, etc.The number of Blocks in each State, affected with ground water contamination are given at Annexure-I.

According to the Ministry of Drinking Water & Sanitation (MoDWS), as on 1.4.2016, out of 1.42 million habitations in various districts of the country, 71,077 habitations are affected by contaminated ground water.

(b) Steps taken by the Government to tackle the situation of ground water contamination includes.
i. Results of the analysis are shared with concerned State agencies for awareness and intensive monitoring and remediation for drinking water use.
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ii.Options such as surface water & ground water based Piped Water Supply Schemes, tapping deeper aquifer and Arsenic Removal Plant (ARP)/ Fluoride Removal Plants have been adopted by various States to deal with the menace of As & F contamination in ground water.
iii.Awareness generation programs in the Country on preventing ground water pollution and avoiding use of contaminated water, rain water harvesting and artificial recharge to ground water, are being carried out.
iv.Ministry of Drinking Water & Sanitation (MoDWS) supplements the efforts of the States by providing them technical and financial support to the schemes being developed for drinking water supply in the State. Under NRDWP Up to 67% fund allocated to the States can be utilized for coverage of water quality affected habitations and for tackling water quality problems in rural areas of the country.
v. CGWB carries out exploratory drilling to delineate contaminant free aquifer zones and successful exploratory wells are handed over to the concerned agencies in the States for utilization by them.
Further, to improve ground water levels by rain water harvesting and artificial recharge to ground water, CGWB has taken up Aquifer Mapping and Management programme during XII Plan, under the scheme of Ground Water Management and Regulation. The Aquifer Mapping is aimed at delineating aquifer disposition and their characterization for preparation of aquifer/area specific ground water management plans, to be implemented in collaboration with the community.

To increase availability of drinking water, the Ministry of Drinking Water & Sanitation has suggested all States to adopt water conservation measures like roof top rainwater harvesting, erecting sustainability structures for water conservation etc. For creating such sustainability structures, 10 % of National Rural Drinking Water Programme (NRDWP) fund is provided to the States. State-wise details of expenditures are given at Annexure II(a) to II(d).

Department of Land Resources is currently implementing 8214 watershed development projects in 28 States (except Goa) covering an area of about 39.07 million ha. under the Watershed Development Component (WDC) of the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) principally for development of rainfed portions of net cultivated area and culturable wastelands. The major activities taken up under the WDC-PMKSY, inter-alia, include ridge area treatment, drainage line afforestation, soil and moisture conservation, rain water harvesting, horticulture, pasture development , creation of livelihoods for asset-less person, etc. State wise details of funds

released are in Annexure −lll.

Ministry of Urban Development has circulated its Model Building Bye-Laws (2016) to all State Governments which, inter-alia, incorporates provisions for Rain Water Harvesting. Atal Mission for Rejuvenation and Urban Transformation (AMRUT) mandates the States to formulate a policy and action plan for having rain water harvesting structures in all commercial, public buildings and new buildings on plots of 300 sq.m and above.
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Under the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA), the water conservation and water harvesting structures to augment ground water constitute special focus area on recharging ground water including drinking water sources. State wise details of expenditures on Natural Resources Management under MGNREGA are at Annexure − lV.

(c) Central Ground Water Authority (CGWA) has issued advisory to Chief Secretaries of all States and Administrators of all UTs to take measures to promote/adopt rain water harvesting and artificial recharge to ground water against large scale extraction and depletion of ground water. 30 States/UTs have made rain water harvesting mandatory by enacting laws or by formulating rules & regulations or by including provisions in Building bye-laws or through suitable Government Orders.

(d) CGWB by deputing Scientists of the Board monitors ground water levels four times a year (January, April/May, August and November), to check depletion of ground water and its quality, once every year during pre-monsoon (April/May) through network of ground water observation wells in the Country, including Aurangabad district of Bihar. The data generated is analysed and shared with the respective State Government Departments as well as placed on the website of CGWB.

As per the information received from Public Health & Engineering Department (PHED), State Government of Bihar, the State deputes scientists to check the depletion as well as contamination of ground water in respect of Bihar. PHED also takes up need based services of doctors, as and when required, in the event of ground water contamination .
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ANNEXURE - I

Annexure referred in reply to Part (a) of the Lok Sabha Starred Q.No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

STATE-WISE DETAILS OF GEOGENIC CONTAMINANTS IN GROUND WATER

Sl. No	No. of States	No of Blocks affected			
		Salinity (EC above 3000 micro mhos/ cm)	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Arsenic (above 0.01 mg/l)	Iron (above 1 mg/l)
1	Andhra Pradesh	65	117	162	4	34
2	Telangana	17	215	115	2	38
3	Assam*	0	9	0	19	18
4	Arunachal Pradesh*	0	0	0	0	4
5	Bihar	3	141	26	78	32
6	Chhattisgarh	0	29	33	1	9
7	Delhi	11	10	14	2	0
8	Goa	0	0	0	0	2
9	Gujarat	104	69	143	22	46
10	Haryana	34	91	45	26	45
11	Himachal Pradesh	0	0	8	1	0
12	Jammu & Kashmir	0	2	11	7	22
13	Jharkhand	0	38	16	3	7
14	Karnataka	114	118	160	7	116
15	Kerala	15	10	35	0	74
16	Madhya Pradesh	22	79	260	25	127
17	Maharashtra	25	32	158	0	28
18	Manipur*	0	0	0	2	0
19	Meghalaya*	0	0	0	0	0
20	Nagaland*	0	0	0	0	0
21	Odisha	42	68	38	1	91
22	Punjab	14	43	50	24	43
23	Rajasthan	87	203	123	1	58
24	Tamil Nadu	70	51	154	14	10
25	Tripura*	0	0	0	0	4
26	Uttar Pradesh	35	74	180	121	26
27	Uttarakhand	0	0	9	0	0
28	West Bengal	59	43	7	90	331
29	Andaman & Nicobar	1	0	0	0	6
30	Dadra & Nagar Haveli	0	0	1	0	0
31	Chandigarh	0	0	0	0	0

32 Daman & Diu 2 0 1 1 1
33 Pudducherry# 0 0 2 0 0
34 Lakshadweep^ 0 3 0 0 0
Total 720 1445 1751 451 1172

*District as unit of survey, # Region as unit of survey, ^ Island as unit of survey
Note: Data Source is CGWB survey upto May2015 and reports of State Government

ANNEXURE − II(a)

Annexure referred to in reply to Part (b) of the Lok Sabha Unstarred Q. No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

State-wise Total Number Of Recharge Structures under NRDWP
Sanction Year:-2013-2014 State:-All State * All Amount in lakhs
S.No. State Pits And Trenches Check Dams Perco Lation Tanks Point Source Recharging (Conversion Of Defunct Borewells) Dug-Wells/ Injection/ Skimming Wells Ooranies/ Village Ponds/ Traditional Water Bodies Roof Top Recharge Shaft Others* Total Estimated Cost Expenditure

1 2 3 4 5 6 7 8 9 10 11 12 13 14
1 ANDAMAN and NICOBAR 0 0 0 0 0 0 0 0 7 7 337.37 0.00
2 ANDHRA PRADESH 0 0 36 0 0 0 0 0 0 36 94.17 28.91
3 ARUNACHAL PRADESH 15 175 0 0 0 0 7 0 2 199 1597.48 921.57
4 ASSAM 0 0 0 0 0 0 1363 0 72 1435 87836.89 845.08
5 BIHAR 1 0 0 194 0 0 0 0 1 196 86313.04 29.60
6 CHATTISGARH 46 199 34 31 1 17 278 1 2304 2910 4349.96 1597.81
7 GUJARAT 338 60 0 0 30 117 106 0 462 1113 14698.42 7414.11
8 HARYANA 0 0 0 0 0 0 1 0 0 1 88.00 0.00
9 HIMACHAL PRADESH 5 50 0 1 4 9 47 0 76 192 1403.72 846.70
10 JAMMU AND KASHMIR 0 85 6 0 2 98 0 0 36 227 5075.25 2589.69
11 JHARKHAND 1443 2 0 1 0 0 165 0 114 1725 2403.39 1999.07
12 KARNATAKA 95 986 96 0 2 25 1 13 138 1343 11373.70 3175.49
13 KERALA 0 2 0 0 0 2 0 0 5 9 1934.29 572.48
14 MADHYA PRADESH 355 784 42 8 279 51 280 210 2372 4171 7273.59 5637.70
15 MAHARASHTRA 3528 309 7 0 236 102 56 326 1688 5926 9173.56 5733.86
16 MANIPUR 2 3 0 0 0 6 25 0 11 47 410.00 254.16
17 MEGHALAYA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
18 MIZORAM 0 0 0 0 0 0 0 0 0 0 0.00 0.00
19 NAGALAND 0 0 0 0 0 0 14 0 19 33 756.00 493.43
20 ODISHA 255 1 0 12 0 0 0 0 3614 3882 3679.93 1515.67
21 PUDUCHERRY 0 0 0 0 0 0 0 0 0 0 0.00 0.00
22 PUNJAB 1 0 0 0 5 1 18 0 50 75 1020.86 265.62
23 RAJASTHAN 1 1 0 0 0 0 110 0 137 249 1016.59 266.54
24 SIKKIM 0 0 0 0 0 0 0 155 0 8 163 392.19 254.02
25 TAMIL NADU 1 785 35 0 0 0 0 141 219 1040 8051.42 7075.89
26 TELANGANA 0 0 59 3 0 0 0 0 1 63 109.58 41.90
27 TRIPURA 0 0 0 0 0 0 0 11 0 4 15 30.24 18.87
28 UTTAR PRADESH 0 0 0 0 0 1 0 0 1 2 3 2.82 1.44
29 UTTARAKHAND 0 0 0 0 0 0 0 102 0 0 102 423.98 281.12
30 WEST BENGAL 3 0 0 0 43 0 0 0 2 48 226.35 74.75
Total 6089 3442 315 250 603 428 2739 692 11344 25210 250072.79 41935.48

* Others May include Infiltration Rings,Sub-Surface Dykes,Others,Revival of traditional water harvesting structures,Flushing/Hydro-fracturing,Bore blasting and Others,Spring Source Devlopment,Solar Pump/ Dual Pump (Solar)

ANNEXURE − II(b)

Annexure referred to in reply to Part (b) of the Lok Sabha Unstarred Q. No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

State-wise Total Number Of Recharge Structures under NRDWP
* All Amount in lakhs
S.No. State Pits And Trenches Check Dams Percolation Tanks Point Source Recharging (Conversion Of Defunct Borewells) Dug-Wells/ Injection/ Skimming Wells Ooranies/ Village Ponds/ Traditional Water Bodies Roof Top Recharge Shaft Others* Total

Estimated Cost Expenditure

1 2 3 4 5 6 7 8 9 10 11 12 13 14
1 ANDAMAN and NICOBAR 0 0 0 0 0 0 0 0 0 0 0.00 0.00
2 ANDHRA PRADESH 0 0 0 0 0 0 0 0 152 152 6.08 6.08
3 ARUNACHAL PRADESH 11 8 0 0 0 0 1 0 2 22 232.22 51.64
4 ASSAM 0 0 0 0 0 2 8 0 51 61 67.85 0.00
5 BIHAR 348 0 0 0 0 0 217 45 58 623 36660.30 18777.32
6 CHATTISGARH 281 77 34 50 25 5 2312 0 3869 6653 4731.76 681.59
7 GUJARAT 1 6 0 0 30 0 1773 0 45 1855 11320.36 4927.20
8 HARYANA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
9 HIMACHAL PRADESH 1 41 1 0 4 1 21 0 107 176 857.02 288.90
10 JAMMU AND KASHMIR 3 23 1 0 0 38 0 0 9 74 1710.06 426.64
11 JHARKHAND 1457 15 0 5 0 0 43 0 287 1807 1094.20 919.40
12 KARNATAKA 109 865 95 1 158 17 0 0 214 1459 14396.78 4366.20
13 KERALA 0 7 0 0 0 0 0 0 0 7 2097.60 104.71
14 MADHYA PRADESH 136 758 20 54 126 0 203 1101 2860 4157 6253.24 2529.10
15 MAHARASHTRA 720 317 4 0 18 41 25 5058 6986 8111 8223.59 2004.37
16 MANIPUR 1 1 0 0 1 14 68 0 3 88 2472.37 1471.68
17 MEGHALAYA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
18 MIZORAM 0 0 0 0 0 0 11 0 0 11 762.08 15.89
19 NAGALAND 0 0 0 0 0 1 10 0 92 103 994.98 997.98
20 ODISHA 175 10 0 0 0 0 0 2 3411 3596 526.19 312.56
21 PUDUCHERRY 0 0 0 0 0 0 0 0 0 0 0.00 0.00
22 PUNJAB 0 0 0 0 0 18 264 0 148 430 3763.66 1394.39
23 RAJASTHAN 3 2 0 0 0 0 64 0 5 74 2636.45 520.85
24 SIKKIM 0 0 0 0 0 0 0 0 0 0 0.00 0.00
25 TAMIL NADU 20 502 0 0 0 40 0 35 122 684 5635.97 4736.59
26 TELANGANA 0 0 0 51 0 0 0 0 0 51 45.38 40.90
27 TRIPURA 2 1 7 0 1 27 111 1 53 202 1333.60 155.81
28 UTTAR PRADESH 0 308 0 0 0 0 0 0 2 310 16823.29 11759.47
29 UTTARAKHAND 3 46 38 0 7 4 133 0 38 269 1363.28 860.63
30 WEST BENGAL 0 0 82 0 79 0 0 0 4 165 736.09 28.96
Total 3271 2987 282 161 449 208 5264 6242 18518 31140 124744.40 57378.86

â€¢ Others May include infiltration Rings, Sub-Surface Dykes, Others , Revival of traditional water harvesting structures, Flushing/ Hydro-fracturing, Bore blasting and others , Spring Source Development, Solar Pump/ Dual pump(solar)

ANNEXURE − II(c)

Annexure referred to in reply to Part (b) of the Lok Sabha Unstarred Q.No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

State-wise Total Number Of Recharge Structures under NRDWP * All Amount in lakhs
Sanction Year:-2015-2016 State:-All State
S.No. State Pits And Trenches Check Dams Perco Lation Tanks Point Source Recharging (Conversion Of Defunct Borewells) Dug-Wells/ Injection/ Skimming Wells Ooranies/ Village Ponds/ Traditional Water Bodies Roof Top Recharge Shaft Others* Total Estimated Cost Expenditure

1 2 3 4 5 6 7 8 9 10 11 12 13 14
1 ANDAMAN and NICOBAR 0 0 0 0 0 0 0 0 0 0 0.00 0.00
2 ANDHRA PRADESH 56 0 0 0 0 0 0 0 0 56 8.19 8.19
3 ARUNACHAL PRADESH 0 0 0 0 0 0 0 0 0 0 0.00 0.00
4 ASSAM 0 0 0 0 0 13 0 0 0 13 6.11 3.41
5 BIHAR 10 0 0 0 0 0 0 0 0 10 100.00 0.00
6 CHATTISGARH 56 35 3 6 0 1 230 4 3092 3423 2565.73 184.53
7 GUJARAT 63 146 0 0 0 0 1267 8 135 1611 15375.63 3859.67
8 HARYANA 3 0 0 0 0 0 1 0 2 6 236.22 71.53
9 HIMACHAL PRADESH 0 2 8 0 0 1 0 0 5 16 116.90 48.64
10 JAMMU AND KASHMIR 0 3 0 0 0 0 0 0 1 4 95.85 7.85
11 JHARKHAND 403 0 0 0 0 0 0 0 2 405 63.08 2.63
12 KARNATAKA 67 143 56 0 247 9 0 6 330 852 3822.87 121.36
13 KERALA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
14 MADHYA PRADESH 573 22 4 0 0 0 1 943 3331 3931 1241.21 940.46
15 MAHARASHTRA 139 12 0 0 11 13 0 3865 5052 5227 2115.20 1032.79
16 MANIPUR 0 0 0 0 0 19 80 0 2 101 3774.99 5.25
17 MEGHALAYA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
18 MIZORAM 0 0 0 0 0 0 0 0 0 0 0.00 0.00

19 NAGALAND 0 0 0 1 0 0 15 0 77 93 1121.72 339.91
20 ODISHA 299 0 0 0 0 1 0 0 3957 4257 2971.50 2445.47
21 PUDUCHERRY 0 0 0 0 0 0 0 0 0 0 0.00 0.00
22 PUNJAB 1 0 0 0 0 0 68 0 7 76 755.86 199.06
23 RAJASTHAN 3 0 0 0 0 0 14 0 0 17 257.58 84.97
24 SIKKIM 0 0 0 0 0 0 0 0 0 0 0.00 0.00
25 TAMIL NADU 0 0 0 0 0 0 0 0 40 40 396.00 0.00
26 TELANGANA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
27 TRIPURA 0 0 2 0 0 3 32 0 37 74 2651.75 62.18
28 UTTAR PRADESH 1 40 0 0 0 0 0 0 7 48 15910.79 9725.00
29 UTTARAKHAND 0 0 0 0 0 25 0 0 12 37 1321.42 450.75
30 WEST BENGAL 0 0 1 0 0 1 0 0 0 2 199.47 0.00
Total 1674 403 74 7 258 86 1708 4826 16089 20299 55108.07 19593.65

* Others May include Infiltration Rings,Sub-Surface Dykes,Others,Revival of traditional water harvesting structures,Flushing/Hydro-fracturing,Bore blasting and Others,Spring Source Devlopment,Solar Pump/ Dual Pump (Solar)

ANNEXURE − II(d)

Annexure referred in reply to Part (b) of the Lok Sabha Unstarred Q.No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

State wise Total Number Of Recharge Structures under NRDWP

Sanction Year:-2016-2017 State:-All State * All Amount in lakhs
S.No. State Pits And Trenches Check Dams Perco Lation Tanks Point Source Recharging (Conversion Of Defunct Borewells) Dug-Wells/ Injection/ Skimming Wells Ooranies/ Village Ponds/ Traditional Water Bodies Roof Top Recharge Shaft Others* Total Estimated Cost Expenditure

1 2 3 4 5 6 7 8 9 10 11 12 13 14
1 ANDAMAN and NICOBAR 0 0 0 0 0 0 0 0 0 0 0.00 0.00
2 ANDHRA PRADESH
(Data under reconciliation) 0 0 0 0 0 0 0 0 0 0 0.00 0.00
3 ARUNACHAL PRADESH 0 0 0 0 0 0 0 0 0 0 0.00 0.00
4 ASSAM 0 0 0 0 0 0 0 0 0 0 0.00 0.00
5 BIHAR 2 0 0 0 0 0 0 0 1 3 2526.84 730.00
6 CHATTISGARH 73 3 0 27 0 0 173 22 2059 2335 892.33 80.32
7 GUJARAT 2 0 0 0 0 0 10 0 82 94 434.65 29.30
8 HARYANA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
9 HIMACHAL PRADESH 0 0 0 0 0 0 0 0 0 0 0.00 0.00
10 JAMMU AND KASHMIR 1 3 0 0 0 2 0 0 0 6 83.60 0.00
11 JHARKHAND 0 0 0 0 0 0 0 0 0 0 0.00 0.00
12 KARNATAKA 100 259 10 0 17 1 0 0 338 725 2992.15 8.00
13 KERALA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
14 MADHYA PRADESH 2029 10 0 0 0 0 0 1556 3959 5998 2068.56 575.66
15 MAHARASHTRA 19 1 0 0 5 2 0 7056 8108 8135 3207.59 128.75
16 MANIPUR
(Data under reconciliation) 0 0 0 0 0 0 0 0 0 0 0.00 0.00
17 MEGHALAYA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
18 MIZORAM 0 0 0 0 0 0 0 0 0 0 0.00 0.00
19 NAGALAND 0 0 0 0 0 0 0 0 0 0 0.00 0.00
20 ODISHA 0 0 0 0 0 1 0 0 1114 1115 601.27 461.27
21 PUDUCHERRY 0 0 0 0 0 0 0 0 0 0 0.00 0.00
22 PUNJAB 0 0 0 0 0 0 0 28 0 12 40 195.33 28.56
23 RAJASTHAN 0 0 0 0 0 0 0 0 0 0 0.00 0.00
24 SIKKIM 0 0 0 0 0 0 0 0 0 0 0.00 0.00
25 TAMIL NADU 0 0 0 0 0 0 0 0 0 0 0.00 0.00
26 TELANGANA
(Data under reconciliation) 0 0 0 0 0 0 0 0 0 0 0.00 0.00
27 TRIPURA 0 0 0 0 0 0 0 0 0 0 0.00 0.00
28 UTTAR PRADESH 0 0 0 0 0 0 0 0 38 38 12945.75 899.95
29 UTTARAKHAND 16 0 0 0 0 0 1 0 0 17 57.89 25.42
30 WEST BENGAL 0 0 0 0 1 0 0 0 0 1 1062.55 0.00
Total 2242 276 10 27 23 6 212 8634 15711 18507 27068.51 2967.23

* Others May include Infiltration Rings,Sub-Surface Dykes,Others,Revival of traditional water harvesting structures,Flushing/Hydro-fracturing,Bore blasting and Others,Spring Source Devlopment,Solar Pump/ Dual Pump (Solar)

ANNEXURE − III

Annexure referred in reply to Part (b) of the Lok Sabha Starred Q.No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

State-wise details of Central Share released by Department of Land Resources under Integrated Watershed Management Programme / Watershed Development Component in the last 3 years and the current year

(Amount in Rs. crore)

S.No.	State	Central Share Released			
		2013-14@	2014-15@	2015-16#	2016-17# (upto 31-10-2016)
1	Andhra Pradesh	107.67	163.28	86.73	83.09
2	Arunachal Pradesh	110.83	0.00	18.00	23.12
3	Assam	116.60	6.99	45.00	0.00
4	Bihar	15.42	21.47	5.00	19.19
5	Chhattisgarh	26.00	10.00	20.00	34.96
6	Gujarat	60.0	72.34	100.00	57.48
7	Haryana	14.20	26.97	6.91	12.82
8	Himachal Pradesh	46.08	0.00	20.00	35.40
9	Jammu & Kashmir	0.0	51.43	0.00	0.00
10	Jharkhand	29.40	0.00	20.00	0.00
11	Karnataka	586.11	125.43	125.00	69.70
12	Kerala	0.0	15.16	20.00	11.37
13	Madhya Pradesh	135.57	303.98	150.00	89.27
14	Maharashtra	180.35	197.91	250.00	80.34
15	Manipur	30.28	11.10	9.00	0.00
16	Meghalaya	28.06	37.16	18.00	11.56
17	Mizoram	69.18	75.81	8.87	16.06
18	Nagaland	74.67	95.09	27.00	28.20
19	Odisha	136.91	248.79	67.50	63.38
20	Punjab	15.44	0.00	7.95	0.00
21	Rajasthan	0.0	403.08	200.00	199.35
22	Sikkim	0.0	0.00	6.30	0.00
23	Tamil Nadu	168.55	124.02	75.00	0.00
24	Telangana	75.58	124.58	70.00	0.00
25	Tripura	47.81	19.04	20.89	12.47
26	Uttarakhand	0.0	49.77	25.68	11.23
27	Uttar Pradesh	88.09	75.39	75.00	0.00
28	West Bengal	0.0	25.85	10.00	24.06
Total		2162.80	2284.63	1487.83	883.05

@ Released under the erstwhile Integrated Watershed Management Programme (IWMP), which was amalgamated as the Watershed Development Component (WDC) of the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) from 2015-16

#Released under the Watershed Development Component (WDC) of the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

Note: 1) WDC-PMKSY is not operational in Union Territories.
2) There is no sanctioned project in Goa.

ANNEXURE − IV

Annexure referred in reply to Part (b) of the Lok Sabha Starred Q.No. 2705 dated 01.12.2016 regarding "Contamination of Ground Water"

State-wise details of expenditure incurred on Public Works relating to Natural Resources Management under MGNREGA

S.No.	State	Public Works Relating To Natural Resources Management

Expenditure on NRM Works (Takenup)
(Rs. in lakhs)

	2013-14	2014-15	2015-16	2016-17 as on 25/11/2016
1 Andaman And Nicobar	0.00	0.00	0.00	0.00
2 Andhra Pradesh	56003.81	83119.04	219432.52	189981.93
3 Arunachal Pradesh	98.22	399.54	1868.42	2557.24
4 Assam	9758.91	11433.52	18665.37	38223.79
5 Bihar	40169.25	33835.59	61890.80	57977.07
6 Chhattisgarh	37116.44	65617.32	67409.62	114121.39
7 Goa	43.99	141.35	102.46	61.69
8 Gujarat	8966.14	11585.08	21996.53	27798.67
9 Haryana	13161.48	8310.48	8366.58	12505.24
10 Himachal Pradesh	25923.62	19775.22	17392.75	14260.47
11 Jammu And Kashmir	8744.96	7219.05	19881.00	10137.48
12 Jharkhand	26845.20	33504.56	47635.36	64774.43
13 Karnataka	63559.02	53394.09	66917.40	73188.61
14 Kerala	63726.45	96234.91	85322.61	87527.47
15 Lakshadweep	21.34	16.26	5.12	0.00
16 Madhya Pradesh	62363.71	71975.88	63030.27	77220.00
17 Maharashtra	23765.64	58760.03	71854.35	57118.64
18 Manipur	1774.11	6857.71	8190.30	14817.83
19 Meghalaya	2876.07	5535.52	5948.88	15608.11
20 Mizoram	1301.22	5271.73	18758.93	3214.07
21 Nagaland	1645.17	1002.40	5017.35	13390.84
22 Odisha	20831.79	43189.39	78241.99	79490.56
23 Puducherry	740.40	465.00	804.47	759.38
24 Punjab	6644.96	9063.86	13969.24	20517.96
25 Rajasthan	60465.18	127798.51	162566.90	165193.72
26 Sikkim	2717.34	2000.17	3013.84	3563.56
27 Tamil Nadu	273071.92	247359.05	383893.37	299741.51
28 Telangana	75.23	41262.74	89834.18	60227.42
29 Tripura	45119.33	48183.66	75173.24	51531.31
30 Uttar Pradesh	41211.54	57814.94	122144.42	188714.19
31 Uttarakhand	9293.70	8320.78	13238.56	15272.69
32 West Bengal	103911.95	165325.65	213617.76	227503.12
Total	1011948.09	1324773.03	1966184.59	1987000.39

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